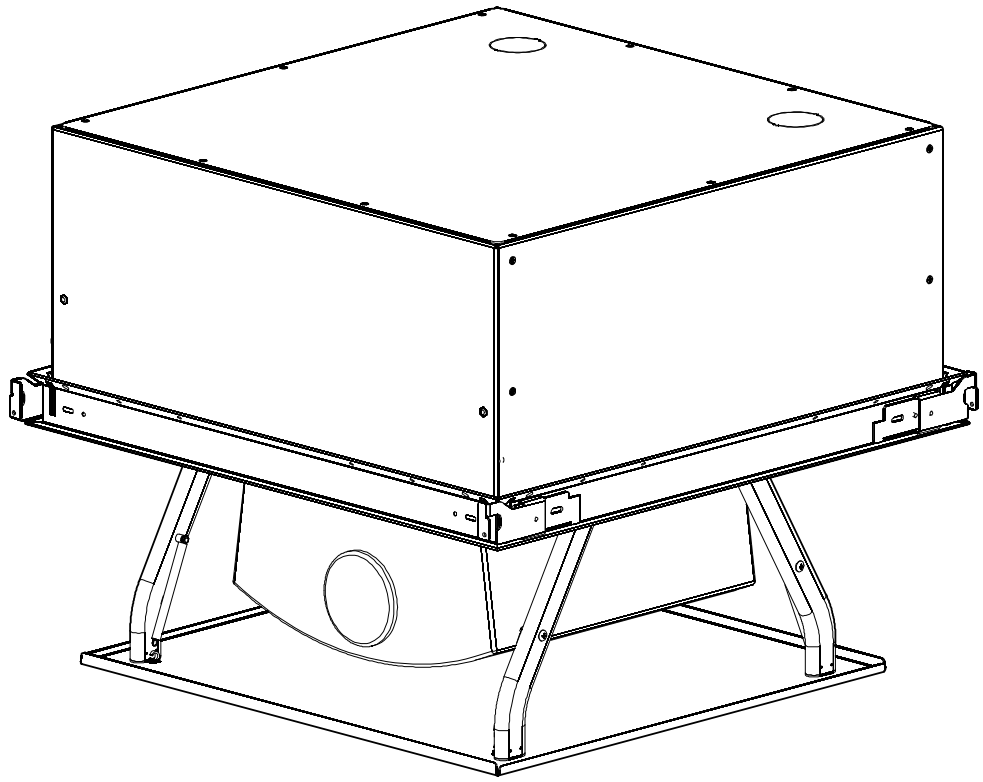
SERVICE MANUAL



Motor Replacement

CHIEF®
Our Mounts. **Your Vision.**

SL220-SK2

DISCLAIMER

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IMPORTANT WARNINGS AND CAUTIONS!

WARNING: A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

CAUTION: A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

WARNING: Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer's responsibility to make sure all components are properly assembled and installed using the instructions provided.

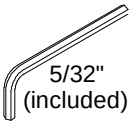
WARNING: Use this mounting system only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.

WARNING: Never operate this mounting system if it is damaged. Return the mounting system to a service center for examination and repair.

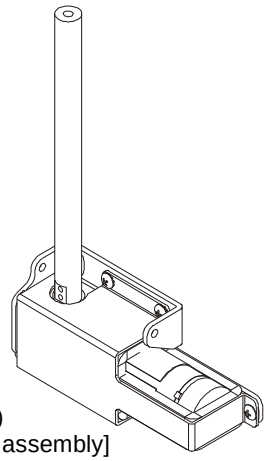
WARNING: Do not use this product outdoors.

--SAVE THESE INSTRUCTIONS--

TOOLS FOR INSTALLATION / PARTS

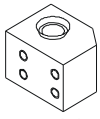


5/32"
(included)



A (1)
[SL220 motor assembly]

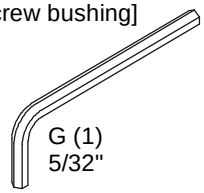
B (2)
1/4-20 x 3/8"



E (1)
[SL220 lifting nut]

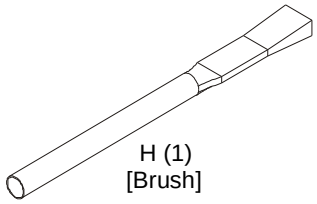
C (5)
08-32 x 3/16"

F (2)
[SL220 screw bushing]



G (1)
5/32"

D (1)
[Grease]



H (1)
[Brush]

***NOTE: The appearance of these parts may vary from the parts being removed during service due to Chief's program of continuous improvement.**

REMOVE SL220

1. Remove projector and cabling.
2. Unplug lift **and save** cord.
3. Remove **and save** Phillips head screw and disconnect the grounding strap leading from inside front of SL220 to projector cradle. (See Figure 1)

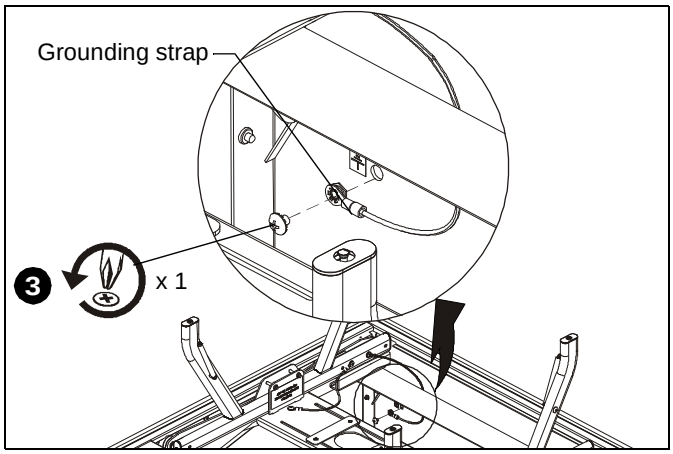


Figure 1

4. Loosen the screws in the linkage on each side of projector cradle at rear of SL220. (See Figure 2)

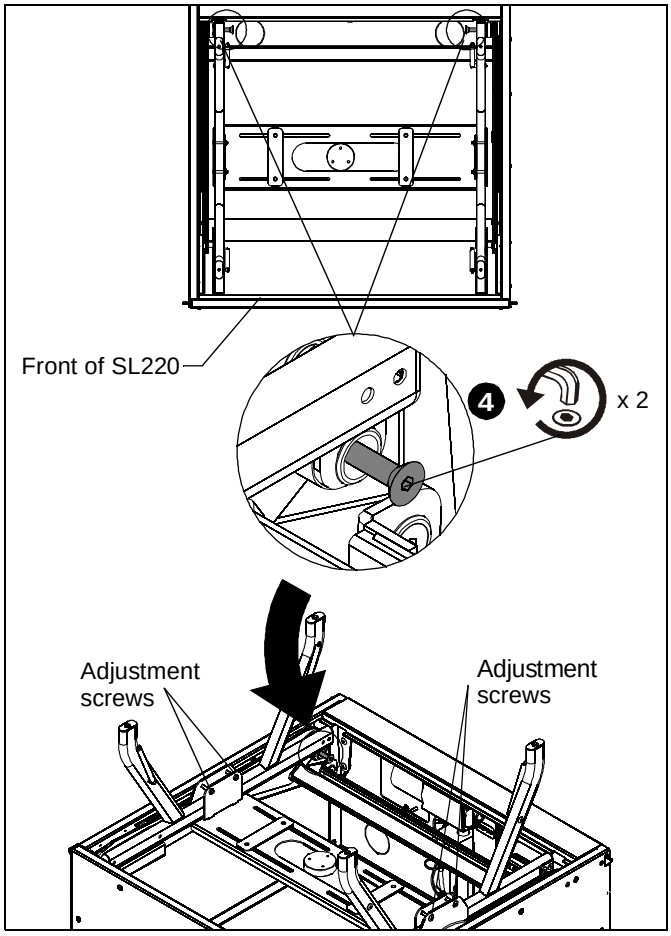


Figure 2

5. Gently pull projector cradle away from sides at rear of SL220. (See Figure 3)
6. The forward/aft adjustment screws may need to be loosened for this. If so, loosen the screws, but do NOT remove the screws. (See Figure 2)

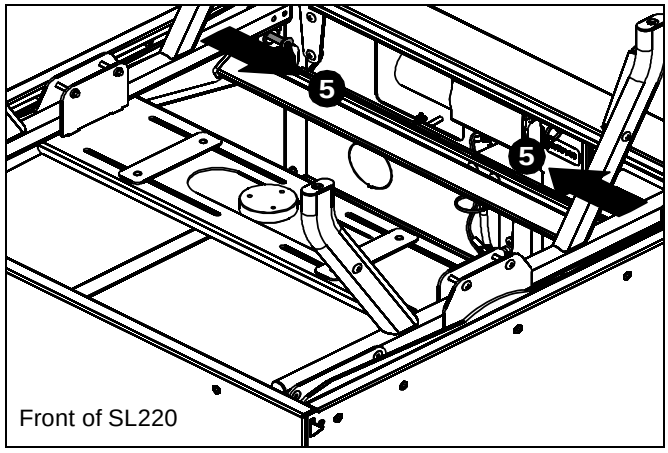


Figure 3

7. While still pulling the projector cradle away from the sides of the SL220, slide front channels towards back, off of bearings and remove projector cradle from SL220. (See Figure 4)

IMPORTANT ! : Save projector cradle for re-use.

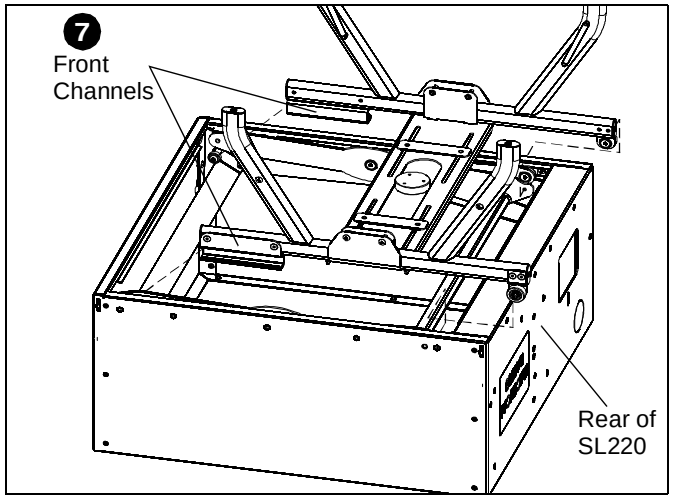


Figure 4

8. Remove four Phillips head screws holding the SL220 to the frame, two from the front and two from the back of the SL220. (See Figure 5) and (See Figure 6)

9. Remove one Phillips head screw holding the outlet box attachment plate to the SL220. (See Figure 5)

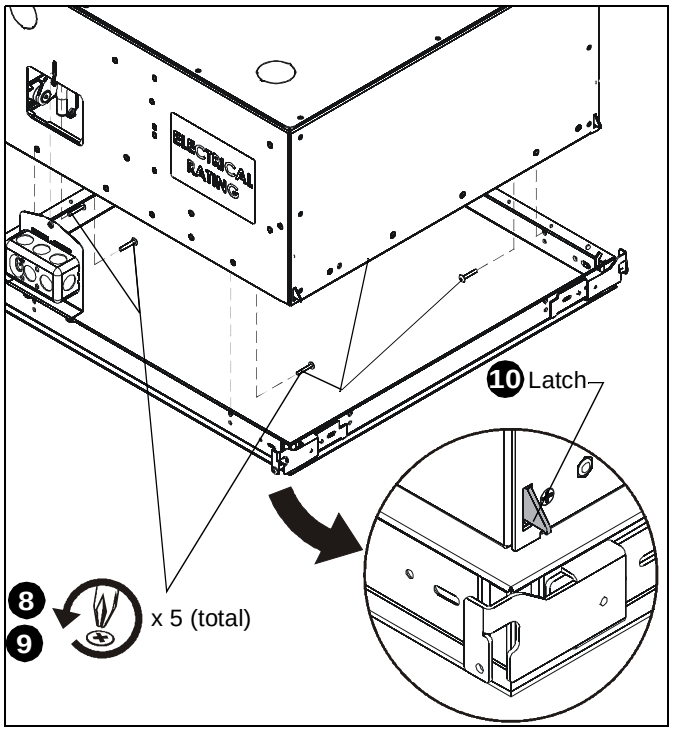


Figure 5

10. Hold the SL220 with one hand to remove weight from the four corner latches.

    - Using opening on latch, pull latch away from corner and either push slightly away or pull slightly towards self to lock latch within SL220 lift. (See Figure 6)
    - Repeat for each corner latch so that all four latches are retracted.

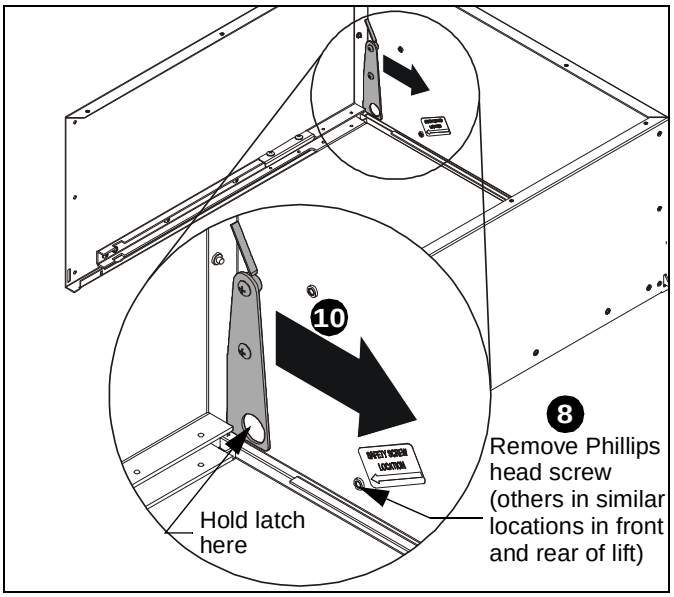


Figure 6

11. Lower lift out of SL220 frame.

12. Place lift upside down on flat surface.

13. Remove four screws from bracket near control assembly. (See Figure 7)

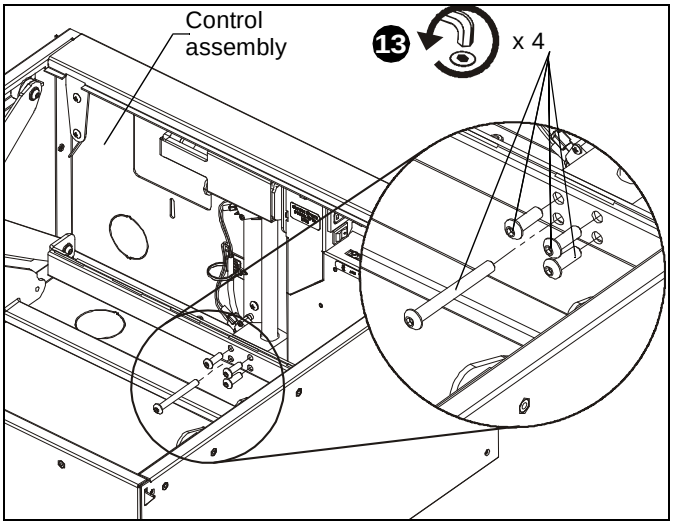


Figure 7

14. Remove three screws from each side of back wall and two from top of back wall (8 screws total), and detach back wall from SL220 assembly. (See Figure 8)

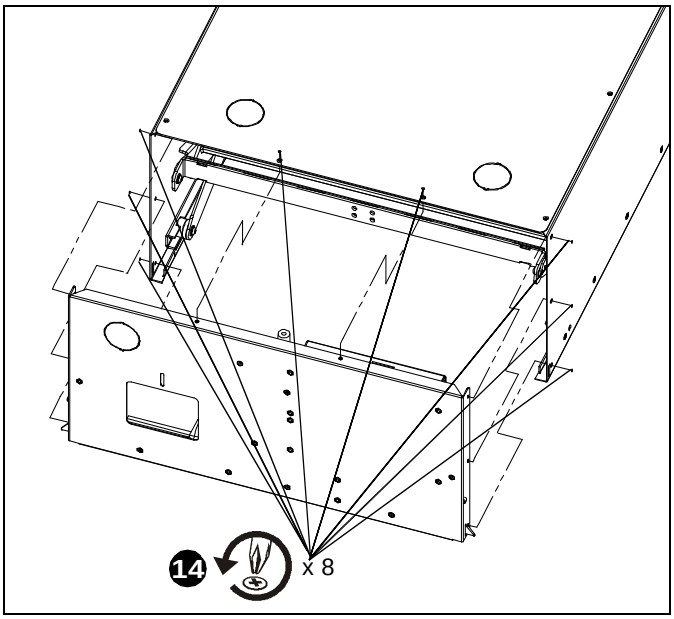


Figure 8

Replacing Motor Assembly

1. Remove four screws from panel to left of motor assembly. (See Figure 9)
2. Carefully pull out panel (it is attached to the ground wire), and move it away from motor assembly.
3. Disconnect motor cable from control (behind panel). (See Figure 9)

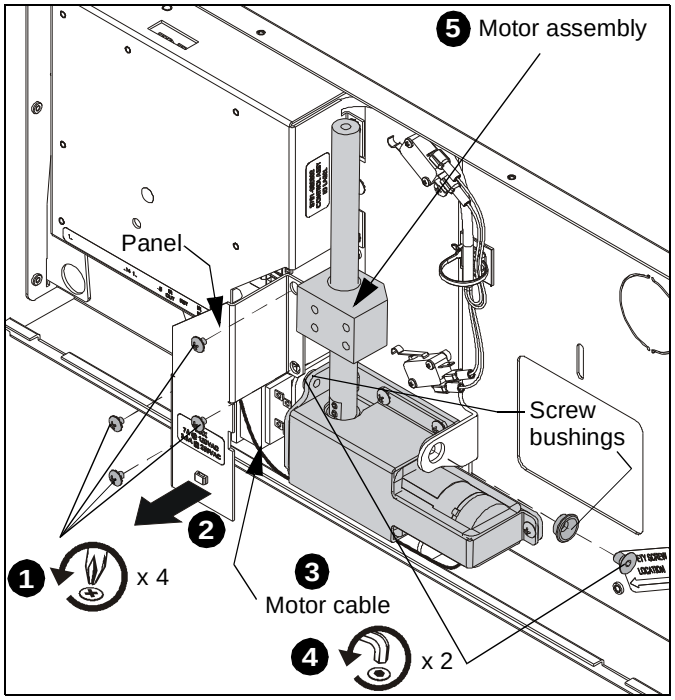


Figure 9

4. Remove one flat head screw and screw bushing from each end of motor assembly. (See Figure 9)
5. Set motor assembly to side. (See Figure 9)
6. Remove five screws from motor bracket, and move bracket enough to remove motor cable from under bracket notches. (See Figure 10)

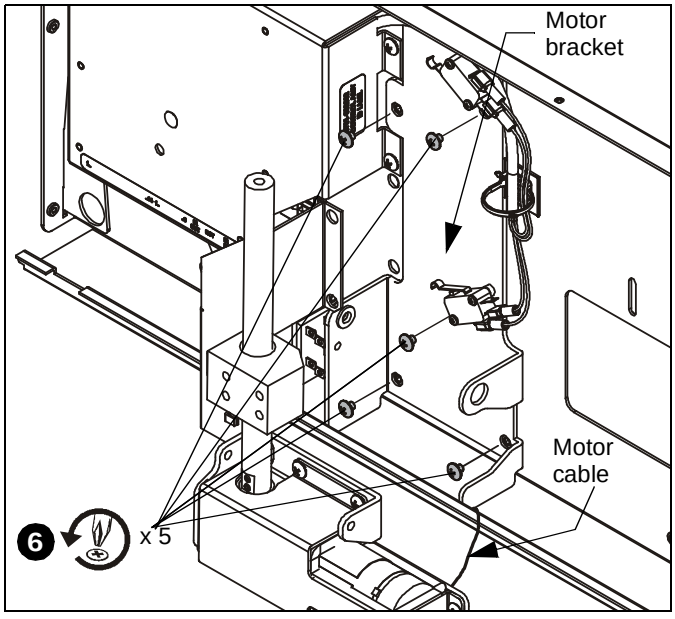


Figure 10

7. Liberally spread grease (D) onto motor assembly (A) shaft using included brush (H). (See Figure 11)

CAUTION: Grease may stain fabrics.

8. Add lifting nut (E) to motor assembly (A) by turning it onto the motor assembly shaft. (See Figure 11)

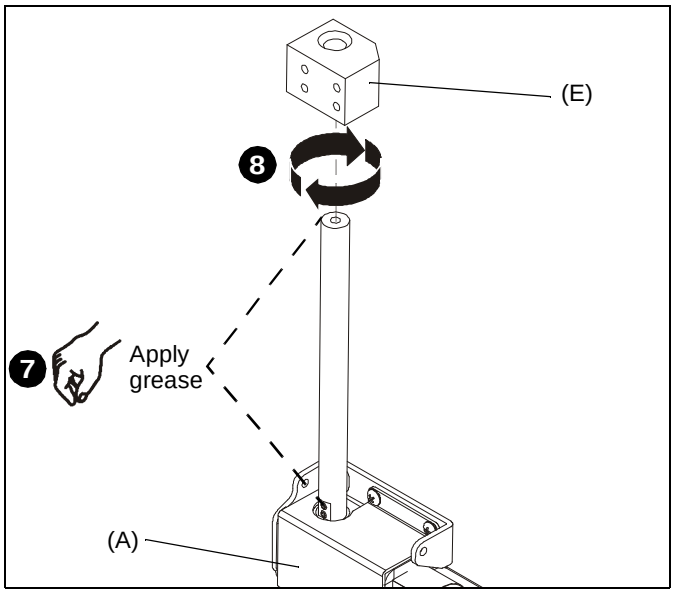


Figure 11

9. Route motor cable attached to new motor assembly (A) under notches at bottom of motor bracket. (See Figure 12)
10. Replace five screws (removed in Step 6) into motor bracket, ensuring that motor cable is routed under **BOTH** brackets at bottom of motor bracket. (See Figure 12)

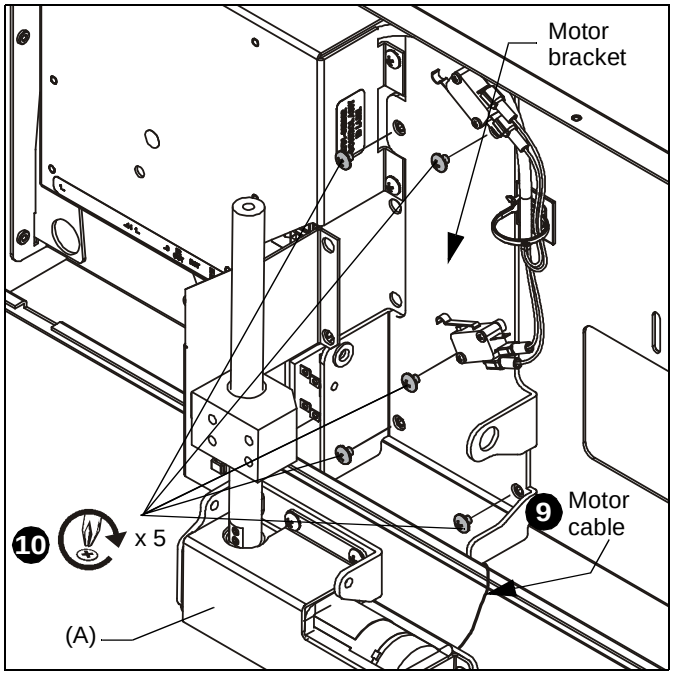


Figure 12

11. Set motor assembly (A) into place.
12. Attach motor assembly (A) to motor bracket using two 1/4-20 x 3/8" flat head screws (B) and two screw bushings (F). (See Figure 13)

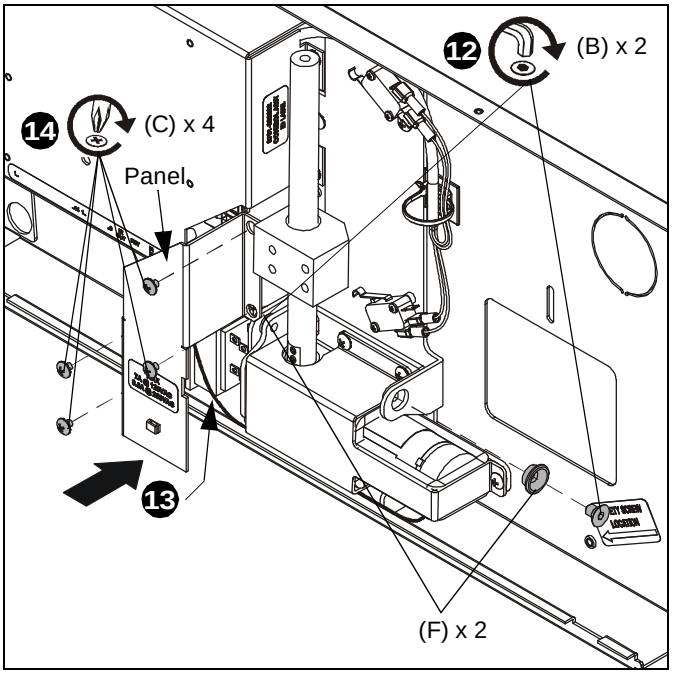


Figure 13

13. Connect motor cable behind panel (next to motor assembly). (See Figure 13)
14. Replace panel and secure in place with four 08-32 x 3/16" Phillips head screws (C). (See Figure 13)
15. Replace four screws into lifting nut near control assembly. (See Figure 14)

NOTE: Ensure that longest screw is replaced in the proper location. (See Figure 14)

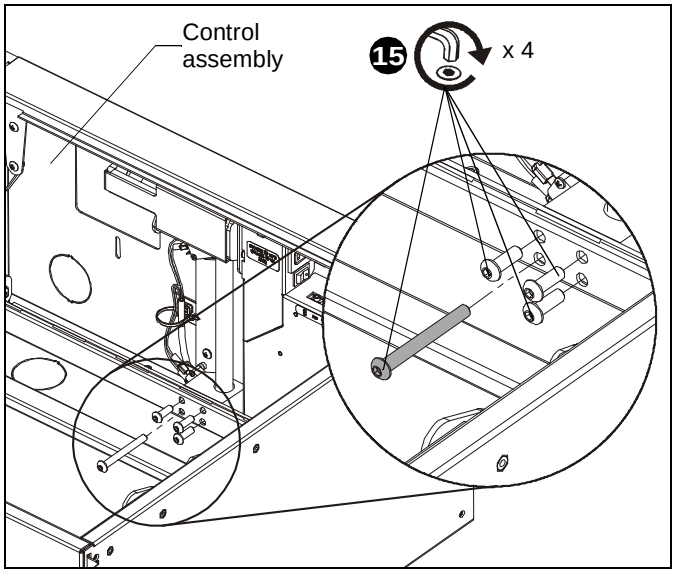


Figure 14

16. Attach back wall to SL220 assembly using eight Phillips head screws. (See Figure 15)

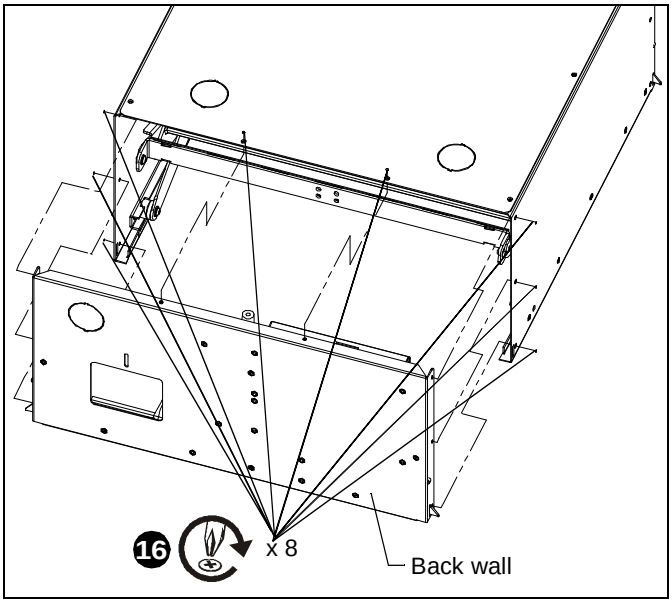


Figure 15

INSTALLING SL220 INTO CEILING

1. Check that four corner latches on SL220 lift assembly are extended and ready to latch to SL220 frame.
2. Orient lift assembly so that the rear of the SL220 (with the electrical opening) lines up with the outlet box attachment plate on the SL220 frame. (See Figure 16)
3. Lift SL220 lift assembly into place through the SL220 frame. (See Figure 16) Ensure that there are four audible clicks---each corner hook "clicking" into place onto the frame. (See Figure 17)

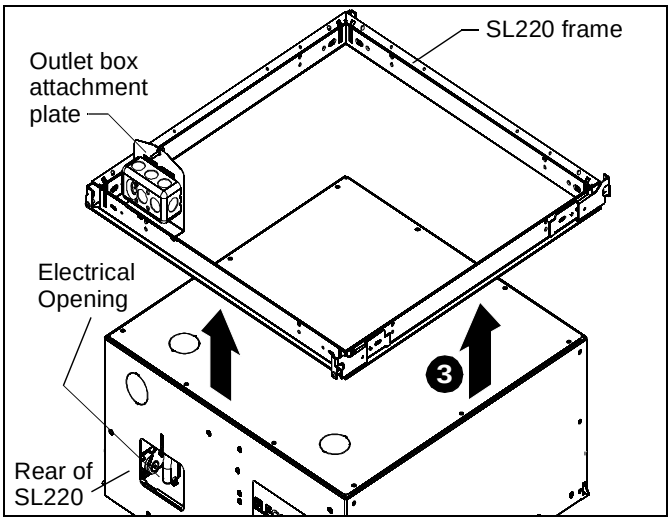


Figure 16

4. Lower onto SL220 frame, carefully lining up outlet box attached to SL220 frame, with opening at rear of SL220. (See Figure 17)
5. Secure the SL220 to the SL220 frame using four 8-32 x 1" Phillips head screws (previously removed), two in the front and two in the back of the SL220. (See Figure 17)

6. Secure the outlet box attachment plate to the SL220 using one 8-32 x 1" Phillips head screw (previously removed).

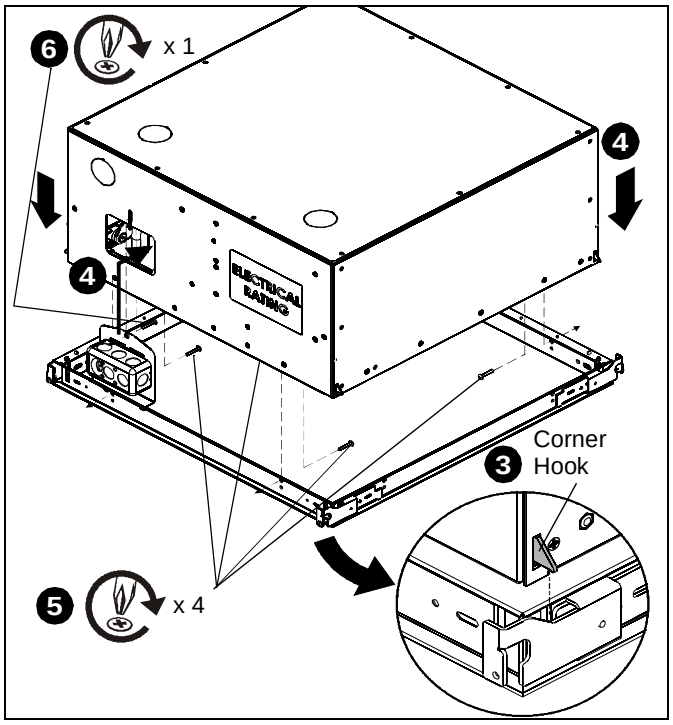


Figure 17

7. Slide front channels of previously removed projector cradle forward onto the SL220 bearings. (See Figure 18)

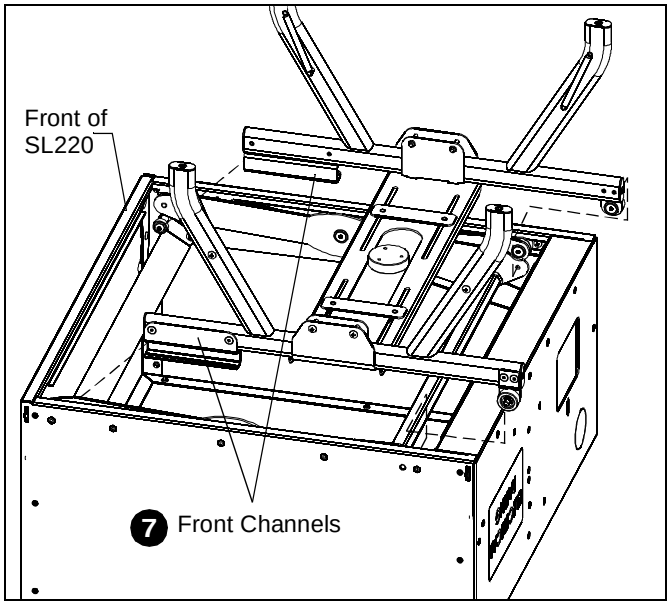


Figure 18

8. Line up rear spacers with attachment holes on SL220 arms. (See Figure 19)
9. Tighten rear spacers.

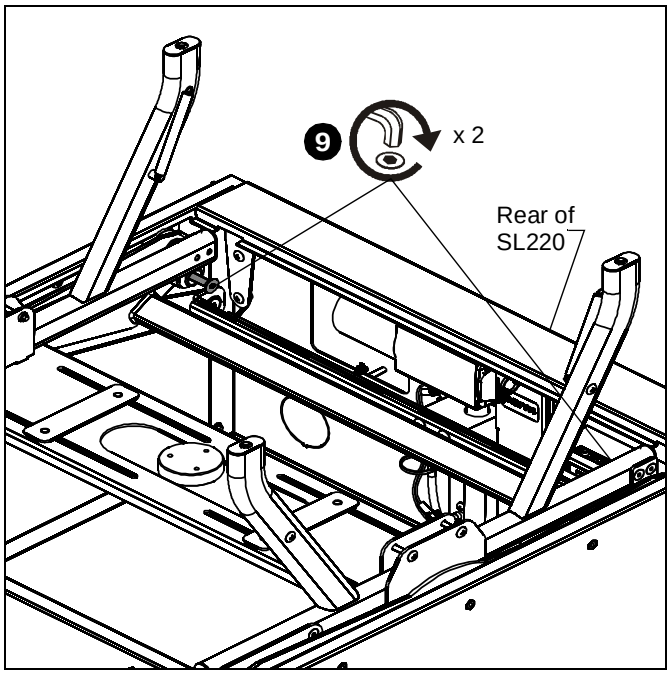


Figure 19

10. Reconnect grounding strap from inside front of SL220 to projector cradle, using the Phillips head screw previously removed. (See Figure 20)

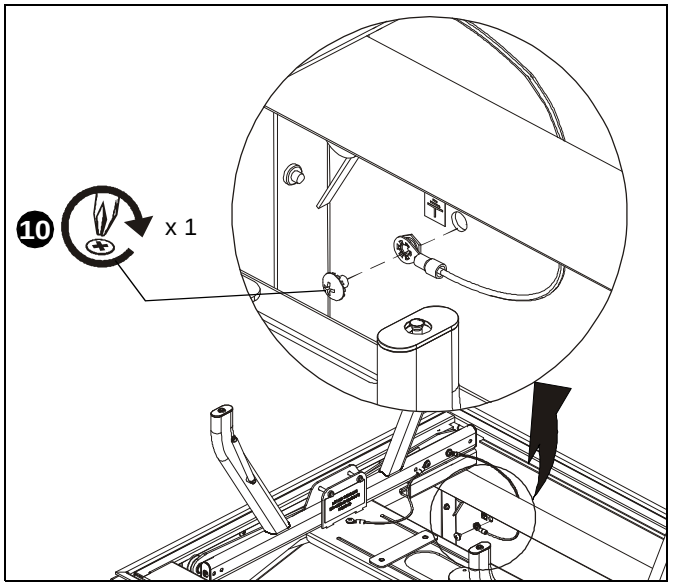


Figure 20

11. Plug in SL220 and verify proper operation.
12. Re-install projector and cabling, using cable tie mounts and cable ties, as required.
13. Test and adjust projector, as required.
14. Return removed motor assembly to Chief Manufacturing.

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